

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGCCATCCCC
 AGGTTTCAAACTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCACATGGCCGTG
 GCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAGGCTCCCTGCTCAGTCCAGAATGG
 GTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTGATTATCAGGTGCACTTGG
 GAGAGCTTACGGTCACACTGTCTCCCCACTTCTCCACTGTAAAACGGATCATCATGTACACTGG
 CTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCC
 CTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCCTGGGATGC
 AGTGCTGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATAACAACCT
 TCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAAT
 GGCAGCCTCATCCAGCCAGACATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACT
 CTGGAGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTGAGCTGGGG
 TGAGGGCTGTGGCCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAAACTGG
 ATCCACCACCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCC
 TGGCTGCCCTCTTCTGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCTGATGGCCAAGTA
 CTGGCTGAGCTCTCCCTCCCACGCGGCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACCAAG
 TGTCTTTCTTAAATAAGTTAGTGTATTTCAGTTTGCTTTGCCCTCCCCTCCCCTTAGCTTTG
 ACTTAGGAAGCCAAAGTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATTTGTAGAACGG
 ATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCGHPQVSNSGSRIVGGHAAPAGTWPWQ
 ASLRLHKVHVCGGSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI
 IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG
 EGEPLKPPYNLQEAKVSVVDVKTC SQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL
 VCQVAGTWQQAGVVSWECEGCRPDRPGVYARVTAYVNWIIHHIPEAGGSGMQGLPWAP

LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

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Construct

Gene: 372 GI Number(s): 6103630
 Gene Family: Protease
 Gene Subfamily: Serine Protease
 Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTG [GGTGTGGCCA
 TCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC
 ATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGCTCCCTGC
 TCAGTCCAGAATGGGTGCTCACAGCAGCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTG
 ATTATCAGGTGCACCTTGGGAGAGCTTACGGTCACACTGTCTCCCCACTT [CTCCACTGTA
 AAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCC
 CTGGTGCAGCTGTCTCCCCGGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCA
 GAGGCTCAGCTGACTTCTACCCTGGGATGCAGTGCTGGGTGACTGGCTGGGGCTATACA
 GGGGAGGGAG] AGCCTCTGAAGCCCCCATACAACCTTCAGGAGGCCAAAGTCTCTGTGGT
 GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCAATGGCAGCCTCATCCAGCCAGA
 CATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT
 CTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGCGTGTGTCAGCTGGGGTGAGGGCTGTGG
 CCGCCCTGACCGCCCTGGCGTCTATGCCCCGGTTACTGCCTATGTAACTGGATCCACCA
 CCACATCCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGC
 TGCCCTCTTCTGGCCAAGCCTCTTCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTA
 CTGGCTGAGCTCTCCCTCCCACGCGGCCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACC
 CAAGTGCTCTTTCTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCCCTCCCCCTCCCCCT
 TAGCTTTGACTTAGGAAGCCAAAGTTTCTGCATCAGATTATTGCAACATTTAACCTGAA
 TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

Gene Sequence Structure

*

164 bp

Sequence Deleted

287 bp

Size of full-length
 cDNA: 1122 bp

FIGURE 2A

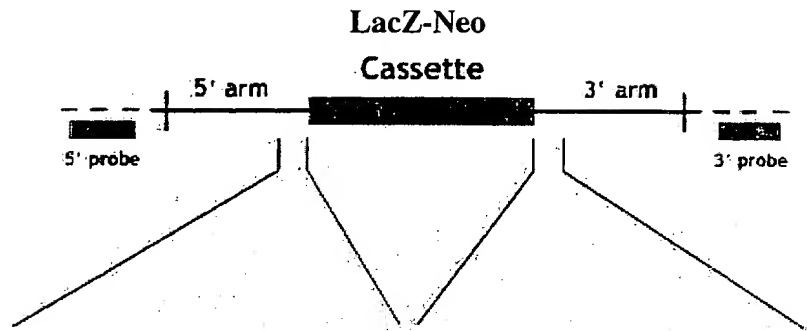
Targeting Vector* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



5' >GGAGTCATGGAGGGCTCCCAG	5' >CTCCACTGTAAAACGGATCAT
AGAAAGGGCATTGAGCAGAATGCC	CATGTACACTGGCTCTCCAGGACC
GGTCTCCAGATTCCCTCACCAACA	ACCGGGGTCCAGTGGGGACATTGC
GTGTCTCCTCTGGATCAGGGTGTG	CCTGGTGCAGCTGTCTCCCCGGT
GCCATCCCCAGGTTTCAAACTCGG	GGCCCTTTCCAGCCAGGTCCAGCC
GAAGTCGAATCGTGGGAGGGCATG	TGTGTGCCTCCCAGAGGCCTCAGC
CTGCCCCAGCAGGCACATGGCCGT	TGACTTCTACCCTGGGATGCAGTG
GGCAGGCTAGCCTCCGTCTGCACA	CTGGGTGACTGGCTGGGGCTATAC
AGGTGACGTGT<3'	AGGGGAGGGAG<3'
(SEQ ID NO:3)	(SEQ ID NO:4)

Targeting Vector

Endogenous Locus

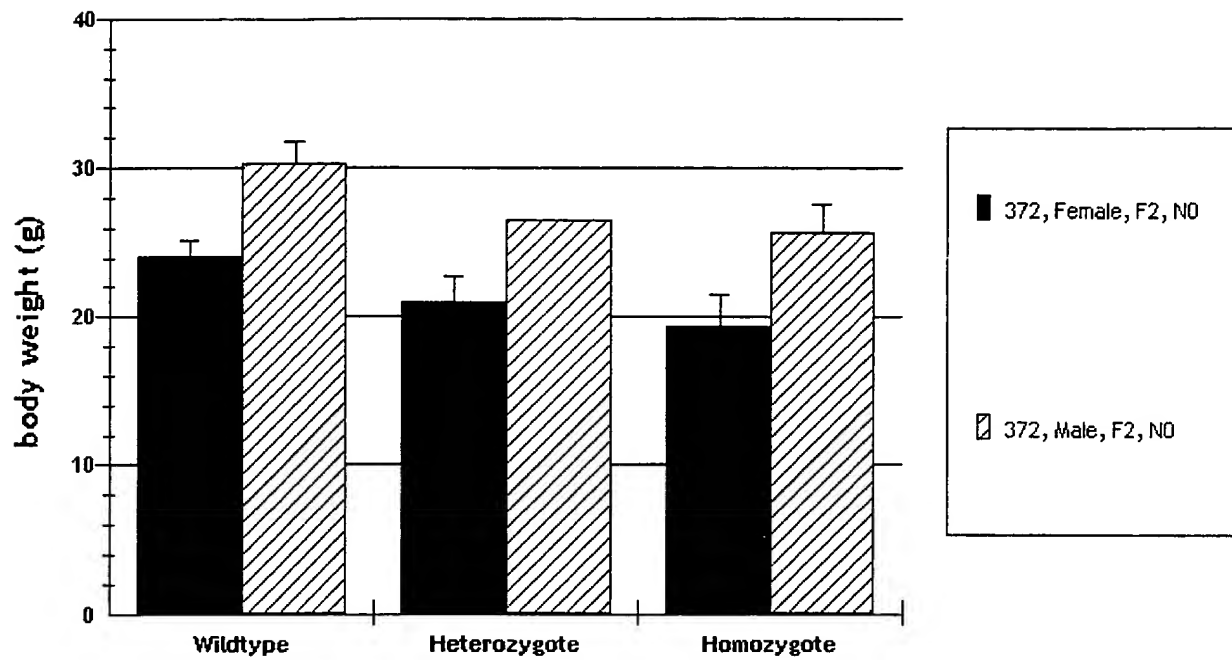
Not drawn to scale

FIGURE 2B

T09020-1520066

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necropsy - body weight



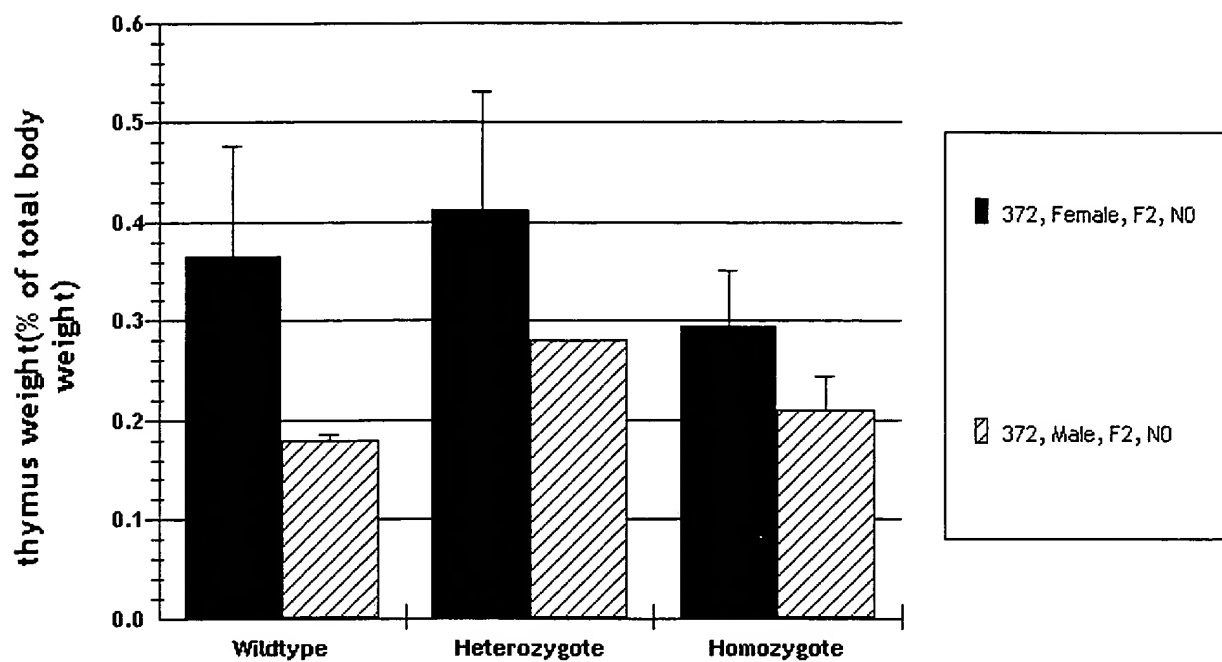
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FIGURE 3

FO9070-15200550

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necropsy - thymus weight/body weight



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FIGURE 4

FO9020" 45200660

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Phenotypic Data Summary - Startle Response Amplitude

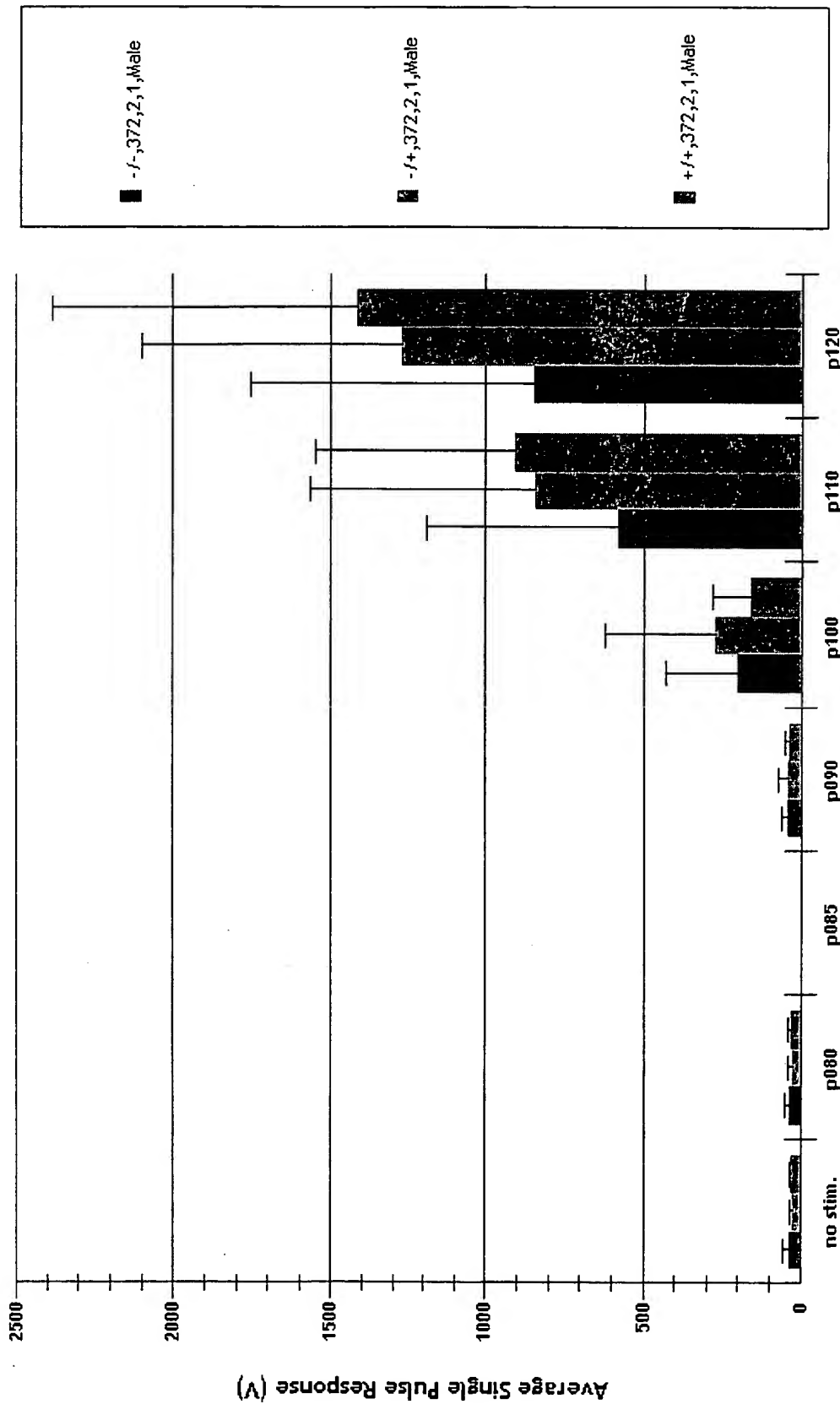


FIGURE 5